

FAX



Osage Nation ENR Department  
P.O. Box 1495  
Pawhuska, OK 74056  
918-287-5333

To: Ray Leissner  
Fax Number: 214 665-2191  
Cc:

From: Kristian Gamett  
Fax Number: 918.287.5581

Date: 5-25-10

Regarding: OSO205  
Pages: 28

Phone number for follow-up:  
918.287.5333



May 19, 2010

Osage ENR Office  
First National Bank Building  
100 W. Main St., Suite 304  
Pawhuska, Oklahoma 74056

Re: Lease Name: North Burbank Unit Tract 15  
Well No : W21  
Location: SW/4 Sec 11-T27N-R05E  
Osage County, Oklahoma

Dear ENR Personnel:

Please find Chaparral Energy, L.L.C.'s CO<sub>2</sub> Permit Application for the referenced well. This well is currently a "By-Rule" water injection well and that will not change. However, in discussion with EPA personnel in Dallas, it was found necessary to permit this well for the CO<sub>2</sub> injection also. This way the well can be used to inject both types of fluid. Notice we said fluid because at the temperature and pressure we are proposing the CO<sub>2</sub> which is normally thought of as a gas will be in its liquid state.


Chaparral is undertaking a large project to bring all the wells in the area of this well up to standards which will contain the CO<sub>2</sub> within the Burbank Injection Zone. We are also enclosing BIA Form 139's which have been filed with the Bureau of Indian Affairs Osage Agency to workover surrounding producing and shut-in producer wells. This should show you and the EPA that Chaparral is serious about containing CO<sub>2</sub> within the Burbank. Since CO<sub>2</sub> is a commodity which Chaparral will purchase and transport to the Unit for use, Chaparral does not want to lose it to other zones or the atmosphere.

We have explained to EPA permitting personnel in the Regional Office that there is a pressure factor involved with this injection which must be met to obtain adequate reservoir pressure to obtain miscible flooding. That pressure is believed to be near 1060 psig for the Burbank at our proposed injection temperature. This will help create the most efficient WAG (water and gas) Flood.

Osage ENR Office  
May 19, 2010  
Page 2 of 2

If you have any questions or need more data, please contact us at the address listed.

Sincerely,  
Chaparral Energy, L.L.C.



David P. Spencer  
Manager of Regulatory Affairs  
Direct Number: (405) 426-4397  
Direct Fax: (405) 425-8897  
E-Mail: [david.spencer@chaparralenergy.com](mailto:david.spencer@chaparralenergy.com)

Enclosures

cc: Mr. Ray Leissner, EPA Region 6, 14

David Spencer - Chaparral  
± 405) 426-4397

permit #'s 144  
- 1521

part of CO<sub>2</sub> flood  
needs them ASAP  
for water disposal



To be completed by UIC OfficeWell Name & No.: MRU 15-21Permit #: OSD205  
Date Rec'd: 5-24-10PERMIT APPLICATION CHECKLIST

	Attached	Not Attached	
1.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Osage Form 139, "Application for Operation or Report on Wells."
2.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Osage Form 208 "Completion Report".
3.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Copy of Plat Map showing wells within 1/4 mile radius of proposed well.
4.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Tabulation of data on wells within 1/4 mile radius including well name, company name, date drilled, depth, exact location, status of well & record of pluggings/completions.
5.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Injection well schematic showing total depth and plugback depth, depth from top & bottom of casing(s) & cemented intervals, cement amount, depth & size of casing & tubing, including depth of packer.
6.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Operating data including: type of well; maximum and average injection rate; source and analysis of injected fluids including TDS, chlorides and additives; major geological formation with top bottoms.
7.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Geological data of the injection zones including name(s), total thickness, porosity, lithologic description, permeability, injection depth, reservoir pressure/fluid level. Address the presence or absence of faults.
8.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Public Notice verifications, consisting of a list showing names, addresses, and date that notice of permit application was given or sent to the surface land owner, tenants of land where the injection well will be located, each operator of a producing lease within 1/2 mile of the well location.
9.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All available logging & testing data of the well attached.

- |     | Attached                             | Not Attached                        |
|-----|--------------------------------------|-------------------------------------|
| 10. | <input checked="" type="checkbox"/>  | <input type="checkbox"/>            |
| 11. | <input checked="" type="checkbox"/>  | <input type="checkbox"/>            |
| 12. | YES                                  | <input checked="" type="radio"/> NO |
| 13. | <input checked="" type="radio"/> YES | NO                                  |
| 14. | <input checked="" type="radio"/> YES | NO                                  |
| 15. | <input checked="" type="radio"/> YES | NO                                  |
| 16. | YES                                  | <input checked="" type="radio"/> NO |
| 17. | <input checked="" type="radio"/> YES | NO                                  |

Copy of surety bond filed with the BIA superintendent (25 CFR §266.6).

Certification form signed by the well owner/operator or authorized representative. (Authorization must be attached & in writing.)

Has the applicant declared any part of his submission as confidential? {147.2907}


Is the well currently Authorized by Rule? If yes, Inventory No. 05020-1

Was the applicant required by EPA to apply for a permit?

Is the permit applicant the owner/operator (Circle one or both.)

Has the applicant requested emergency authorization to inject? If yes, attach emergency checklist.

Berms and all facilities associated with saltwater system adequate?

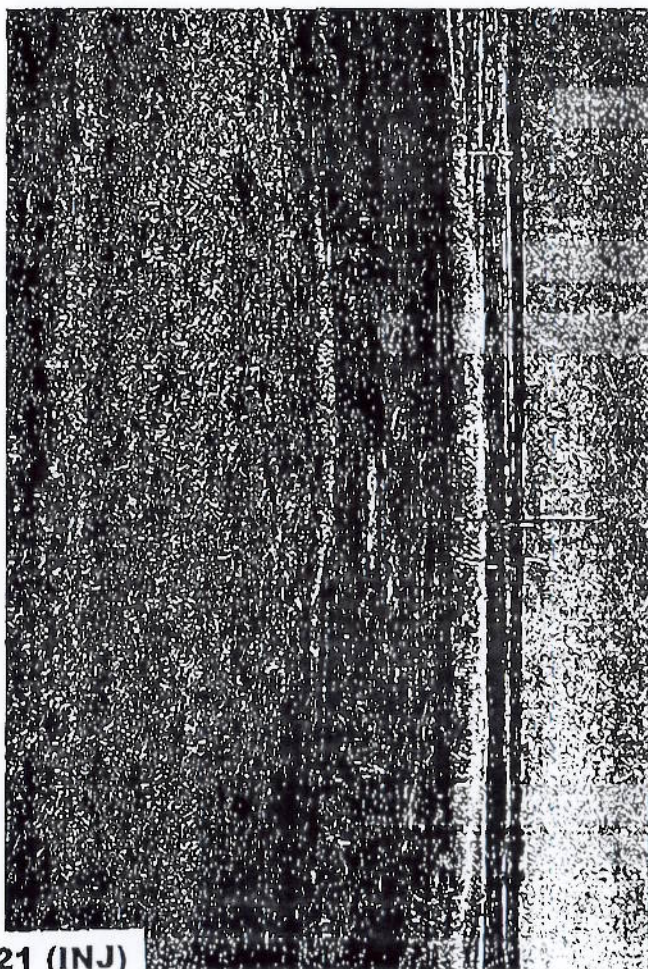
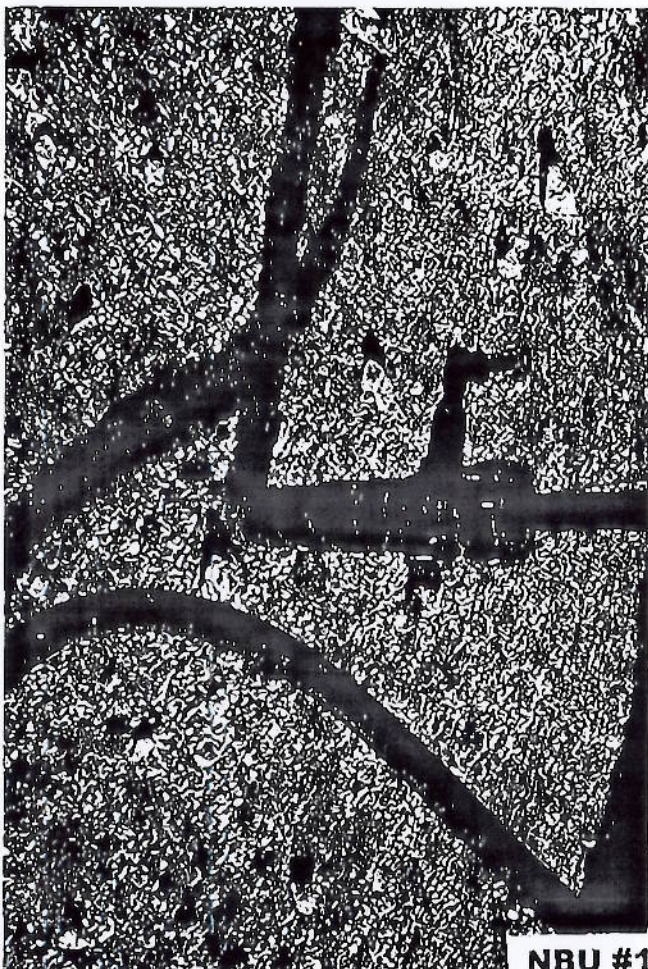
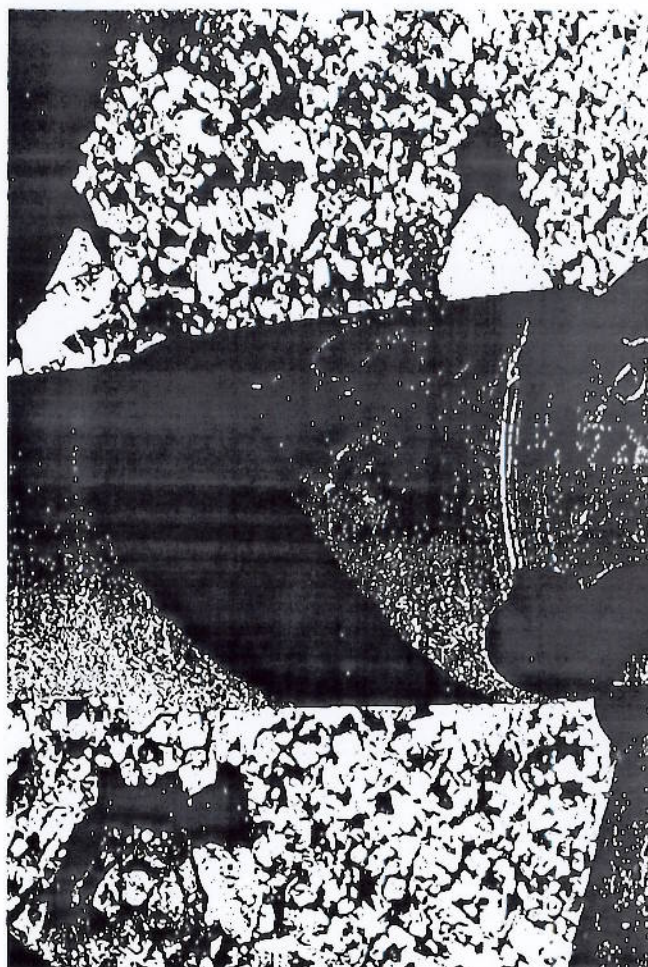
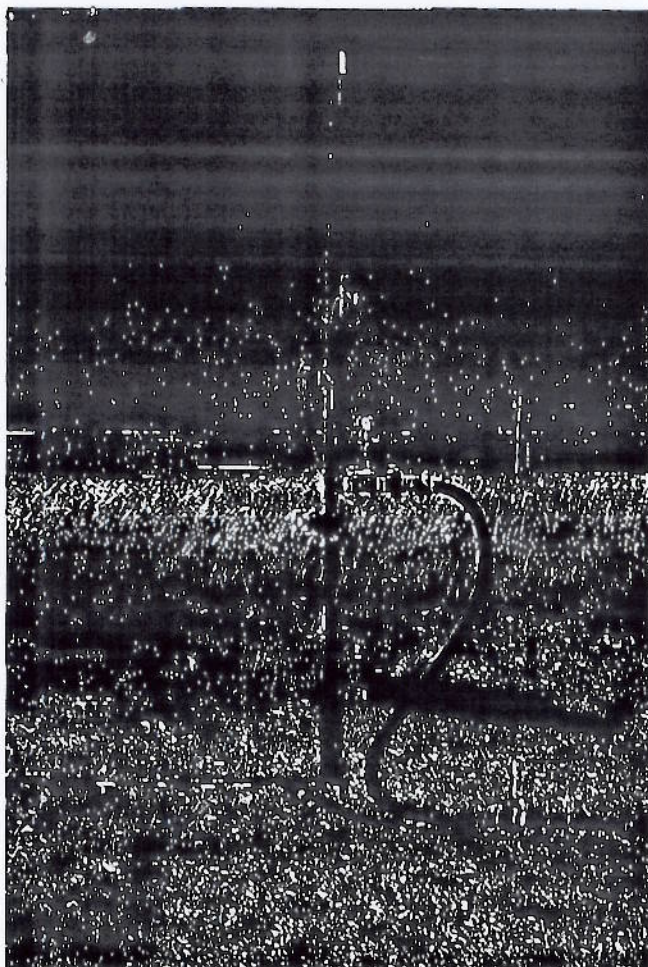
  
Pawhuska Technician/Administrative Review

5-24-10  
Date

\_\_\_\_\_  
6W-SE Reviewer

\_\_\_\_\_  
Date





NBU #15-21 (INJ)



**WELL OPERATION & GEOLOGICAL DATA**Permit Number OSD201~~For Osage Use Only~~Type of Injection Well: EOR - CO<sub>2</sub>  
(EOR / SWD / HC Storage)(New / ~~Conversion~~ / Authorized By Rule)CO<sub>2</sub>water**Injection:**Rate (B/D): Average 4000 MCF @ 1060 psig Maximum 6000 MCF @ 1060 psigFluid: Tds \_\_\_\_\_ sp. Gr. \_\_\_\_\_ Analyses Included: (~~Yes~~ / No)Source (Formation name): Anthropogenic from various sources

Will anything be added to the water to be injected? (Yes / No)

What will those additives be? \_\_\_\_\_

**Geologic Data:***All references to depths are below land surface.*Injection Intervals: 2989 to 3061; \_\_\_\_\_ to \_\_\_\_\_Formation Name Burbank Lithology Sand Porosity (%) 17Permeability (md) 96 Total formation thickness 72Perforated or open hole interval Openhole 3003' - 3061'

Formation Name \_\_\_\_\_ Lithology \_\_\_\_\_ Porosity (%) \_\_\_\_\_

Permeability (md) \_\_\_\_\_ Total formation thickness \_\_\_\_\_

Perforated or open hole interval \_\_\_\_\_

Current Fluid Level in Well ??? ft. (below land surface) and / orCurrent Reservoir Pressure \_\_\_\_\_ Date Not converted YetDrill Stem Test ( Yes / No ) If yes, attach copy.Depth of nearest fresh water well(s) 100' @ 3.1 miles ft.**Facilities Associated with Injection Well:**Adequate Berm around tank battery? (Yes / ~~No~~)Leaking Flow Lines? (~~Yes~~ / No)**Formation:**

Top/Bottom From PBTD to Surface.

<u>Checkerboard Lime</u>	<u>2140</u>	/	<u>2170</u>
<u>Big Lime</u>	<u>2590</u>	/	<u>2670</u>
<u>Oswego Lime</u>	<u>2710</u>	/	<u>2805</u>
<u>Burbank sand</u>	<u>2989</u>	/	<u>3061 (TD)</u>
		/	

APPLICANT'S PUBLIC NOTICE OF PERMIT AND VERIFICATION  
(\$147.2918 (b) (s) and \$147.2929 (d) (ii))

Chaparral Energy, L.L.C. is applying for a permit for a Class II  
(Operator Name)  
injection well. Well No. NBU 15-W21 is located 890 ft. from [XX S] line and  
565 ft. from [XX W] line. SW/4 Sec 11 27N 05E  
(1/4 Sec. & Sec. No.) (Twp.) (Rge)  
The well will be used to inject CO<sub>2</sub> & Formation Water into the Burbank Sand  
(Fluid Type) (Formation Name)  
for (disposal/enhanced recovery). The well operator's address is  
701 Cedar Lake Blvd., Oklahoma City, OK 73114  
(Street/P.O. Box/City/State/Zip Code)

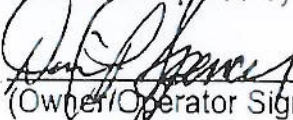
EPA may prepare a draft permit or a notice of intent to deny this application. Following the preparation of a draft permit or intent to deny, there will be an opportunity for public comments. For further information concerning the status of this application, please contact:

Osage UIC Office  
P. O. Box 1495  
Pawhuska, Oklahoma 74056  
Phone: (918) 287-5333

Notice Sent To: ~~Surface Owner/Tenant~~ (Operator) Circle one

Chaparral Energy, L.L.C.  
Name  
701 Cedar Lake Blvd.  
Address  
Oklahoma City, OK 73114  
City / State / Zip Code

I certify that the surface owner(s), the tenants on land where the injection well is located, and each operator of a producing lease within one-half mile of the well location was mailed a copy of this notice as required by 40 CFR \$147.2918.

 David P. Spencer  
(Owner/Operator Signature) Mgr. Reg. Affairs

5/19/2010  
(Date of Notice)



APPLICANT'S PUBLIC NOTICE OF PERMIT AND VERIFICATION  
(§147.2918 (b) (s) and §147.2929 (d) (ii))

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Osage UIC Office  
P. O. Box 1495  
Pawhuska, Oklahoma 74056  
Phone: (918) 287-5333

Notice Sent To: (~~Surface Owner~~ Tenant/Operator) Circle one

Not Applicable

Name

Address

City / State / Zip Code

I certify that the surface owner(s), the tenants on land where the injection well is located, and each operator of a producing lease within one-half mile of the well location was mailed a copy of this notice as required by 40 CFR §147.2918.

David P. Spencer  
(Owner/Operator Signature) Mgr. Reg. Affairs

5/19/2010  
(Date of Notice)

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Osage UIC Office  
 P. O. Box 1495  
 Pawhuska, Oklahoma 74056  
 Phone: (918) 287-5333

Notice Sent To: (Surface Owner/~~Tenant/Operator~~) Circle one

Chaparral Energy, L.L.C.  
 Name  
701 Cedar Lake Blvd.  
 Address  
Oklahoma City, OK 73114  
 City / State / Zip Code

I certify that the surface owner(s), the tenants on land where the injection well is located, and each operator of a producing lease within one-half mile of the well location was mailed a copy of this notice as required by 40 CFR §147.2918.

David P. Spencer  
 (Owner/Operator Signature) Mgr. Reg. Affairs

5/19/2010  
 (Date of Notice)







by the Secretary of the Interior relative to said oil and gas mining leases and permits, and shall in all particulars comply with the provisions of said leases, permits, rules and regulations, then this obligation shall become null and void; otherwise, to remain in full force and effect.

The rate of premium charged on this bond is \$ 25/1000; the total premium paid is \$ \*\*3,750.00\*\*.

Signed and sealed in the presence of-  
WITNESSES\*

X Thomas C. Lough  
Thomas C. Lough  
P.O. 701 Cedar Lake Blvd., OKC, OK 73114

X Terrell N. Lay  
Terrell N. Lay  
P.O. 701 Cedar Lake Blvd., OKC OK 73114

CEI Bristol Acquisition, L.P., Chaparral Energy, L.L.C.,  
Chaparral Oil, L.L.C.

as to Mark A. Fischer [SEAL]  
Mark A. Fischer, Manager

P.O. Molly Battenfield  
Molly Battenfield  
777 Post Oak Blvd., Suite 330, Houston, TX 77056

P.O. Diane E. Carey  
Diane E. Carey  
777 Post Oak Blvd., Suite 330, Houston, TX 77056

U.S. Specialty Insurance Company  
as to W. Russell Brown, Jr. [SEAL]  
W. Russell Brown, Jr., Attorney-in-Fact

P.O. \_\_\_\_\_

as to \_\_\_\_\_ [SEAL]

P.O. \_\_\_\_\_

P.O. \_\_\_\_\_

as to \_\_\_\_\_ [SEAL]

P.O. \_\_\_\_\_

\* Two witnesses to each signature

DEPARTMENT OF THE INTERIOR  
BUREAU OF INDIAN AFFAIRS  
DEPUTY BUREAU DIRECTOR-TRUST SERVICES  
1849 C STREET, N.W., MS-4639-MIB  
WASHINGTON, D. C. 20240

2-16-2005

Approved:

Ben K. Burgh  
DEPUTY BUREAU DIRECTOR - TRUST SERVICES



Bond No. B001236

**Important Notice Regarding  
Terrorism Risk Insurance Act of 2002**

In accordance with the Terrorism Risk Insurance Act of 2002 (the "Act"), this disclosure notice is provided for surety bonds on which U.S. Specialty Insurance Company is the issuing surety.

The premium attributable to any bond coverage for "acts of terrorism" as defined in Section 102(1) of the Act is Zero Dollars (\$0.00).

The United States will reimburse the Issuing Sureties for ninety percent (90%) of any covered losses from terrorist acts certified under the Act exceeding the applicable surety deductible.

The actual coverage provided by your bond for acts of terrorism, as is true for all coverages, is limited by the terms, conditions, exclusions, penalties, limits, other provisions of your bond and the underlying contract, any endorsements to the bond and generally applicable rules of law. This Important Notice Regarding Terrorism Insurance Risk Act of 2002 is for informational purposes only and does not create coverage nor become a part or condition of the attached document.

The rest of this page is intentionally left blank.

**POWER OF ATTORNEY**

PA001236

(To be used with bonds issued on behalf of U. S. SPECIALTY INSURANCE COMPANY)

Know All Men by These Presents That, U. S. SPECIALTY INSURANCE COMPANY (the "Company"), a corporation duly organized and existing under the laws of the State of Texas, and having its principal office in Houston, Harris County, Texas, does by these presents make, constitute and appoint

Edwin H. Frank III, W. Russell Brown, Jr.

its true and lawful Attorney-in-fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver any and all bonds, recognizances, undertakings or other instruments or contracts of suretyship to include riders, amendments, and consents of surety, providing the bond penalty does not exceed Three Million Dollars (\$3,000,000) and to bind the Company thereby as fully and to the same extent as if such bonds were signed by the President, sealed with the corporate seal of the Company and duly attested by its Secretary, hereby ratifying and confirming that the said Attorney-in-fact may do in the premises. Said appointment is made under and by authority of the following resolutions of the Board of Directors of the U. S. Specialty Insurance Company:

Be It Resolved, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

Attorney-in-Fact may be given full power and authority for and in the name of and of behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and sealed and effected by the Corporate Secretary.

Be It Resolved, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached. (Adopted by unanimous written consent in lieu of meeting on July 7, 2003.)

In Witness Whereof, U. S. SPECIALTY INSURANCE COMPANY has caused these presents to be signed by its President, and its corporate seal to be hereto affixed this 24<sup>th</sup> of August, 2004.


Corporate Seal

U. S. SPECIALTY INSURANCE COMPANY

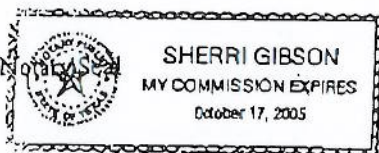
By


State of Texas

County of Harris ss:

  
Michael J. Schell, President

On this 24<sup>th</sup> of August before me personally came Michael J. Schell, to me known, who, being by me duly sworn, did depose and say, that he resides in Houston, Texas, that he is President of U. S. SPECIALTY INSURANCE COMPANY, the company described in and which executed the above instrument; that he knows the seal of said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto by like order.

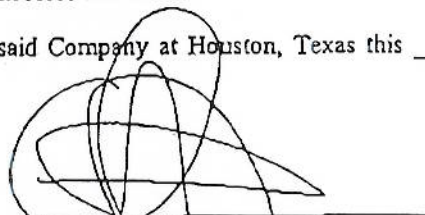


  
Notary Public  
My commission expires 10-17-05

I, Christopher L. Martin, Secretary of U. S. SPECIALTY INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Company, which is still in full force and effect; furthermore, the resolutions of the Board of Directors, set out in the Power of Attorney are in full force and effect.

In Witness Whereof, I have hereunto set my hand and affixed the seal of said Company at Houston, Texas this 31<sup>st</sup> day of October, 2004.

Corporate Seal

  
Christopher L. Martin, Secretary



Bond No. B001236ASSUMPTION OF LIABILITY RIDER

It is hereby agreed by and between the undersigned principal and surety, in consideration for the additional premium or consideration paid for this rider, if any, and the consent by the United States to terminate the period of liability on surety bond number 886682C, carrying the same principal and Developers Surety and Indemnity Company as surety, the undersigned principal and surety hereby assume any and all liabilities that may be outstanding on surety bond number 886682C, including, but not limited to, the obligation to properly plug and abandon all wells existing, to which surety bond number 886682C, applies and any unpaid rentals or royalties heretofore accruing; provided, however, that this rider shall not act to increase the potential or cumulative liability of the surety above the face amount of the bond to which this rider attaches.

Executed this 31st day of October, 2004.

Witnesses

Name of Witness

Thomas C. Lough

701 Cedar Lake Blvd., OKC, OK

✓ Address of Witness

701 Cedar Lake Blvd., OKC, OK

✓ Principal's Address

Name of Witness Molly Battenfield

777 Post Oak, Ste 330, Houston, TX 77056

Address of Witness

CEI Bristol Acquisition, L.P.,

Chaparral Energy, L.L.C.,

Chaparral Oil, L.L.C.

Name of Principal

Signature

73114 Mark A. Fischer, Manager

Name and title of person executing for Principal

U.S. Specialty Insurance Company

Name of Surety

Signature

W. Russell Brown, Jr., Attorney-in-Fact

Name and title of person executing for Surety

13403 Northwest Freeway, Houston, TX 77040

Surety's Address

**POWER OF ATTORNEY**

PA001236

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Edwin H. Frank III, W. Russell Brown, Jr.

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Corporate Seal

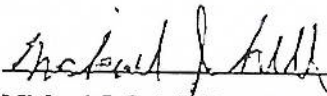
U. S. SPECIALTY INSURANCE COMPANY

By

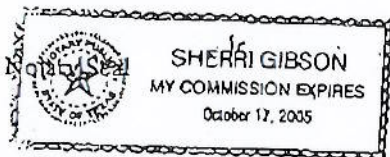
State of Texas


County of Harris

ss:

  
Michael J. Schell, President

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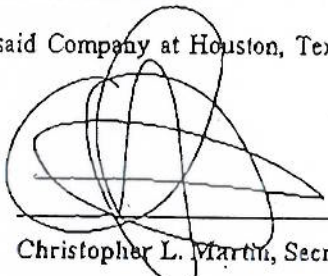


, Notary Public  
My commission expires 10-17-05

I, Christopher L. Martin, Secretary of U. S. SPECIALTY INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Company, which is still in full force and effect; furthermore, the resolutions of the Board of Directors, set out in the Power of Attorney are in full force and effect.

In Witness Whereof, I have hereunto set my hand and affixed the seal of said Company at Houston, Texas this 31st day of October, 2004.

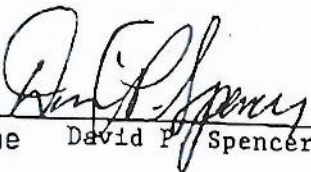
Corporate Seal

  
Christopher L. Martin, Secretary



CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibilities of fine and imprisonment.

  
Name David P. Spencer

Manager of Regulatory Affairs  
Title

*\*If certification is signed by a party other than the Injection well owner/operator a written statement of authorization signed by the owner/operator must accompany the application.*

STATEMENT OF AUTHORIZATION

I, Mark A. Fischer, hereby authorize David P. Spencer to act in my behalf in executing any necessary forms, to include Permit Applications, Compliance Reports, etc., as required by the Environmental Protection Agency Underground Injection Control Program.

Mark A. Fischer

Printed Name

Signature

Manager of Chaparral Energy, L.L.C.

Title

March 12, 2009

Date